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Substitute for form 1449B/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/062,467
		Filing Date	February 5, 2002
		First Named Inventor	Andrew C. Hiatt
		Group Art Unit	1651
		Examiner Name	
(use as many sheets as necessary)		Attorney Docket Number	068904-0204
Sheet	1	of	5

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature  J.M. [Signature] Date Considered 7/26/04

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Sheet	2	of	5	Attorney Docket Number	068904-0204

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ⁶
<i>dm</i>	A10	Allen, et al., "An immunoperoxidase study of epithelial marker antigens in ulcerative colitis with dysplasia and carcinoma." <i>J. Clin. Pathol.</i> , <u>38</u> :18-29 (1985)		
<i>dm</i>	A11	Arnold, et al., "Radioimmunoguided surgery challenges traditional decision making in patients with primary colorectal cancer." <i>Surgery</i> , <u>112</u> :624-631 (1992)		
<i>dm</i>	A12	Ball, et al., "A polarized human endometrial cell line that binds and transports polymeric IgA." <i>In Vitro Cell Biol.</i> , <u>31</u> :96 (1995)		
<i>dm</i>	A13	Carayannopoulos, et al., "Localization of the Binding Site for the Monocyte Immunoglobulin (Ig) A-Fc Receptor (CD89) to the Domain Boundary Between Cα2 and Cα3 in Human IgA1." <i>J. Exp. Med.</i> , <u>183</u> :1579-1586 (1996)		
<i>dm</i>	A14	Church and Gilbert, "Genomic sequencing." <i>Proc. Natl. Acad. Sci. USA</i> , <u>81</u> :1991-1995 (1984)		
<i>dm</i>	A15	Creighton, Thomas E., <i>Proteins – Structures and Molecular Principles</i> , (New York: W.H. Freeman and Co.) pp. 2, 86-87.		
<i>dm</i>	A16	Folli, et al., "Antibody-indocyanin conjugates for immunophotodetection of human squamous cell carcinoma in nude mice." <i>Cancer Res.</i> , <u>54</u> :2643-2450 (1994)		
<i>dm</i>	A17	Hughes, et al., "The amino acid sequence of rabbit J chain in secretory immunoglobulin A." <i>Biochem. J.</i> , <u>271</u> :641-647 (1990)		
<i>dm</i>	A18	Janknecht and Nordheim, "Affinity purification of histidine-tagged proteins transiently produced in HeLa cells." <i>Gene</i> , <u>121</u> :321-324 (1992)		
<i>dm</i>	A19	Kimball, John W., <i>Introduction to Immunology</i> (New York: Macmillan) pages 264-265, 1983.		

Examiner Signature	<i>dm</i>	Date Considered	7/28/04
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<i>DCH</i>	A20	Lemaire-Coelho, et al., "In vivo experiments involving secretory component in the rat hepatic transfer of polymeric IgA from blood into bile." <i>Immunology</i> , <u>43</u> :261 (1981).	
<i>DCH</i>	A21	Matsuuchi, et al., "Immunoglobulin J chain gene from the mouse." <i>Proc. Natl. Acad. Sci. USA</i> , <u>83</u> :456-460 (1986).	
<i>DCH</i>	A22	Max and Korsmeyer, "Human J chain gene." <i>J. Exp. Med.</i> , <u>161</u> :832-849 (1985).	
<i>DCH</i>	A23	Merrifield, R.B., "Solid phase peptide synthesis: The synthesis of a Tetrapeptide." <i>J. Am. Chem. Soc.</i> , <u>85</u> :2149-2146 (1963).	
<i>DCH</i>	A24	Mikoryak, et al., "J chain in <i>Rana catesbeiana</i> high molecular weight Ig." <i>J. Immunol.</i> , <u>140</u> :4279-4285 (1988).	
<i>DCH</i>	A25	Morton, et al., "Purification and Characterization of Chimeric Human IgA1 and IgA2 Expressed in COS and Chinese Hamster Ovary Cells," <i>The Journal of Immunology</i> , <u>151</u> (9):4743-4752 (1993).	
<i>DCH</i>	A26	Pelegrin, et al., "Antibody-Fluorescein conjugates for photoimmunodiagnosis of human colon carcinoma in nude mice." <i>Cancer</i> , <u>67</u> :2529-2535 (1994)	

Examiner Signature	<i>DCH</i>	Date Considered	<i>7/28/04</i>
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Sheet 4		of 5	Attorney Docket Number 068904-0204		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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<i>AM</i>	A27	Piskurich, et al., "Molecular cloning of the mouse polymeric Ig receptor: Functional regions of the molecule are conserved among five mammalian species." <i>J. Immunol.</i> , <u>154</u> :1735-1747 (1995)	
<i>AM</i>	A28	Suemori, et al., "Identification and characterization of rat intestinal trefoil factor: tissue- and cell-specific member of the trefoil protein family." <i>Proc. Natl. Acad. Sci.</i> , <u>88</u> :11017-11021 (1991).	
<i>AM</i>	A29	Takahashi, et al., "The joining (J) chain is present in invertebrates that do not express immunoglobulins." <i>Proc. Natl. Acad. Sci. USA</i> , <u>93</u> :1886-1891 (1996).	
<i>AM</i>	A30	Underdown, et al., "Isolation of human secretory component by affinity chromatography." <i>Immunochemistry</i> , <u>14</u> :111-120 (1977).	
<i>AM</i>	A31	Verma & Somia, "Gene Therapy – promises, problems, and prospects." <i>Nature</i> , <u>389</u> :239-242 (1997).	
<i>AM</i>	A32	Wagner, et al., "Efficient aldolase catalytic antibodies that use the enamine mechanism of natural enzymes." <i>Science</i> , <u>270</u> :1797-1800 (1995).	
<i>AM</i>	A33	Weissleder, et al., "Quantitation of slow drug release from an implantable and degradable gentamicin conjugate by In Vivo magnetic resonance imaging." <i>Antimicrobial Agents and Chemotherapy</i> , <u>39</u> (4):839-845 (1995).	

Examiner Signature	<i>AM</i>	Date Considered	7/24/07
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				Group Art Unit	1651
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				Attorney Docket Number	068904-0204

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<i>AM</i>	A34	Wells, J. A., "Additivity of Mutational Effects in Proteins," <i>Biochemistry</i> , 29(37):8509-8517 (1990).	

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U.S. PATENT AND TRADEMARK OFFICE

FORM PTO-1449 (REV.7-80)			U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 310098-402	APPLICATION NO. 08/782,480	
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>			APPLICANTS Andrew C. Hiatt et al.			27	
			FILING DATE January 10, 1997	GROUP ART UNIT			PT

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	AB						YES NO

OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
<i>Dr</i>	AC	Ferkol et al., "Gene Transfer into Respiratory Epithelial Cells by Targeting the Polymeric Immunoglobulin Receptor," <i>J. Clin. Invest.</i> 92: 2394-2400, 1993.					
<i>Dr</i>	AD	Terskikh et al., "Dimeric Recombinant IgA Directed Against Carcino-Embryonic Antigen, A Novel Tool For Carcinoma Localization," <i>Molecular Immunology</i> 31(17): 1313-1319, 1994.					
<i>Dr</i>	AE	Hendrickson et al., "Altered Hepatic Transport of Immunoglobulin A in Mice Lacking the J Chain," <i>J. Exp. Med.</i> 182: 1905-1911, 1995.					
<i>Dr</i>	AF	Max and Korsmeyer, "Human J Chain Gene. Structure and Expression in B Lymphoid Cells," <i>Journal of Experimental Medicine</i> 161: 832-849, 1985.					
<i>Dr</i>	AG	Frutiger et al., "Disulfide Bond Assignment in Human J Chain and Its Covalent Pairing with Immunoglobulin M," <i>Biochemistry</i> 31: 12643-12647, 1992.					
<i>Dr</i>	AH	Kulseth and Rogne, "Cloning and Characterization of the Bovine Immunoglobulin J Chain cDNA and Its Promoter Region," <i>DNA and Cell Biology</i> 13(1): 37-42, 1994.					
<i>Dr</i>	AI	Rifai and Mannik, "Clearance Kinetics and Fate of Mouse IgA Immune Complexes Prepared with Monomeric or Dimeric IgA," <i>Journal of Immunology</i> 130(4): 1826-1832, 1983.					
<i>Dr</i>	AJ	Burns et al., "Protective Effect of Rotavirus VP6-Specific IgA Monoclonal Antibodies That Lack Neutralizing Activity," <i>Science</i> 272: 104-107, 1996.					
<i>Dr</i>	AK	Mazanec et al., "Intracellular Neutralization of Influenza Virus by Immunoglobulin A Anti-Hemagglutinin Monoclonal Antibodies," <i>Journal of Virology</i> 69(2): 1339-1343, 1995.					
<i>Dr</i>	AL	Kaetzel et al., "The polymeric immunoglobulin receptor (secretory component) mediates transport of immune complexes across epithelial cells: A local defense function for IgA," <i>Proc. Natl. Acad. Sci.</i> 88: 8796-8800, 1991.					
EXAMINER <i>Dr. M. W.</i>				DATE CONSIDERED <i>1/20/94</i>			

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	BA						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	BB						YES NO
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
<i>dw</i>	BC	Kaetzel et al., "Epithelial Transcytosis of Monomeric IgA and IgG Cross-linked Through Antigen to Polymeric IgA. A Role for Monomeric Antibodies in the Mucosal Immune System," <i>Journal of Immunology</i> 152: 72-76, 1994.					
<i>dw</i>	BD	Sheldrake et al., "Selective Transport of Serum-Derived IgA Into Mucosal Secretions," <i>Journal of Immunology</i> 132(1): 363-368, 1984.					
<i>dw</i>	BE	Mestecky et al., "The Role of the Liver in Catabolism of Mouse and Human IgA," <i>Immunological Investigations</i> 18(1-4): 313-324, 1989.					
<i>dw</i>	BF	Youngman et al., "Inhibition of IFN- γ Activity in Supernatants from Stimulated Human Intestinal Mononuclear Cells Prevents Up-Regulation of the Polymeric Ig Receptor in an Intestinal Epithelial Cell Line," <i>Journal of Immunology</i> 153: 675-681, 1994.					
<i>dw</i>	BG	Rifai et al., "Clearance Kinetics and Fate of Macromolecular IgA in Patients with IgA Nephropathy," <i>Laboratory Investigation</i> 61(4): 381-388, 1989.					
<i>dw</i>	BH	Emancipator and Lamm, "IgA Nephropathy: Overproduction of Decreased Clearance of Immune Complexes?" <i>Laboratory Investigation</i> 61(4): 365-367, 1989.					
<i>dw</i>	BI	Nagura et al., "Translocation of Dimeric IgA Through Neoplastic Colon Cells <i>In Vitro</i> ," <i>Journal of Immunology</i> 123(5): 2359-2368, 1979.					
<i>dw</i>	BJ	Mannik and Arend, "Fate of Preformed Immune Complexes in Rabbits and Rhesus Monkeys," <i>Journal of Experimental Medicine</i> 134(3 pt. 2): 19s-31s, 1971.					
	BK						
	BL						
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<i>dw</i>			<i>M. WY</i> <i>7/26/04</i>				

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						YES	NO
AH							
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OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

An	AM	Henneberg et al., "Antibrain Antibodies in Alcoholic Patients," <i>Alcohol & Alcoholism</i> 28(2): 181-187, 1993.
An	AN	Hammond, "Ultrastructural Characteristics of Surface IgM Reactive Malignant Lymphoid Cells," <i>Experimental Research</i> 59: 359-370, 1970.
An	AO	Valnes and Brandtzaeg, "Comparison of Paired Immunofluorescence and Paired Immunoenzyme Staining Methods Based on Primary Antisera from the Same Species," <i>The Journal of Histochemistry and Cytochemistry</i> 30(6): 518-524, 1982.
PW	AP	Brown and Koshland, "Evidence for a long-range conformational change induced by antigen binding to IgM antibody," <i>Proc. Natl. Acad. Sci. USA</i> 74(12): 5682-5686, 1977.
An	AQ	Brandtzaeg and Baklien, "Immunohistochemical studies of the immunoglobulin-producing cell systems of the human intestinal mucosa," <i>Acta histochemica, Suppl.</i> 21: 105-119, 1980.

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<i>an</i>	AA	4,837,167	06/06/89	Schoemaker et al.	436	513	
<i>an</i>	AB	5,240,833	08/31/93	Nudelman et al.	435	70.21	
<i>an</i>	AC	5,484,707	01/16/96	Goldblum and Rajaraman	435	7.92	
<i>an</i>	AD	5,512,443	04/30/96	Schlom et al.	435	7.23	
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<i>an</i>	AL	WO 98/30592	07/16/98	PCT		
	AM					
	AN					
	AO					
	AP					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

<i>an</i>	AQ	Tamer et al., "Comparative Studies of Transcytosis and Assembly of Secretory IgA in Madin-Darby Canine Kidney Cells Expressing Human Polymeric Ig Receptor," <i>The Journal of Immunology</i> 155: 707-714, 1995.
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THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANTS Andrew C. Hiatt et al.		
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	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION
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